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AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A position light for use on an aircraft, comprising:

a housing structure;

at least one light source arranged inside said housing structure;

a prism having an input face, an output face, and a transflective face to

receive, distribute, and direct light emitted by said light source, said light

source being located externally to said prism; and

a lens through which emitted light passes, wherein said lens is engaged

with the housing structure and light emitted by said light source is capable of

passing through said lens.

2. (Previously Presented) The position light of claim 1 wherein a first

portion of the light emitted from said light source undergoes total internal

reflection at said transflective face of said prism and a second portion of the

light emitted from said light source is transmitted through said transflective

face, the combination of said first and second portions of light producing a

lighting pattern with a sharp angular cutoff corresponding to the critical angle

for said total internal reflection at said transflective face.

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3. (Previously Presented) The position light of claim 1, further comprising an alignment guide for aligning said light source to direct said light source.

- 4. (Previously Presented) The position light of claim 3, wherein said alignment guide further includes means for carrying away heat generated by said light source.
- 5. (Previously Presented) A position light for use on an aircraft, comprising:
 - a housing structure;
 - at least one light source arranged inside said housing structure;
- a prism having an input face, an output face, and a transflective face to receive, distribute, and direct light emitted by said light source, said light source being located externally to said prism;
- a lens through which emitted light passes, wherein said lens is engaged with the housing structure; and

means for controlling the amount of electrical current applied to said light source.

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6. (Original) The position light of claim 5, wherein said current control means is one of located inside said housing structure and located remotely from said housing structure.

- 7. (Original) The position light of claim 5, wherein said current control means includes means for modulating the intensity of said light source.
- 8. (Original) The position light of claim 1, wherein said light source emits one of a green, red, and white light.
- 9. (Previously Presented) The position light of claim 1, wherein said at least one light source comprises a plurality of light sources.
- 10. (Previously Presented) The position light of claim 9, wherein said light sources comprise a plurality of colors.
- 11. (Previously Presented) The position light of claim 9, wherein said light sources comprise a plurality of angular distributions of light.
- 12. (Original) The position light of claim 9, wherein said light sources are electrically connected in series.

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13. (Original) The position light of claim 9, wherein said light sources are electrically connected in series-parallel.

14. (Previously Presented) A position light for use on an aircraft, comprising:

a housing structure;

at least one light source arranged inside said housing structure; wherein said light source is solid state;

a prism having an input face, an output face, and a transflective face to receive, distribute, and direct light emitted by said light source, said light source being located externally to said prism; and

a lens through which emitted light passes, wherein said lens is engaged with the housing structure.

- 15. (Previously Presented) The position light of claim 1, further comprising an optical filter between said at least one light source and said input face of said prism to condition the light emitted by said light source.
- 16. (Previously Presented) The position light of claim 1, further comprising at least one diffuser between said at least one light source and said

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input face of said prism to further condition and distribute the light emitted by said light source.

- 17. (Previously Presented) The position light of claim 1, further comprising a second prism within said housing structure having an input face, an output face, and a transflective face to further shape and direct the light emitted by said light source.
- 18. (Original) The position light of claim 17, further including facets on the input face of said second prism.
- 19. (Original) The position light of claim 18, wherein said facets are one of flat and curved.
- 20. (Previously Presented) A position light for use on an aircraft, comprising:
 - a housing structure;
 - at least one light source arranged inside said housing structure;
- a prism having an input face, an output face, and a transflective face to receive, distribute, and direct light emitted by said light source, said light source being located externally to said prism;

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a lens through which emitted light passes, wherein said lens is engaged with the housing structure and light emitted by said light source is capable of passing through said lens; and

a second prism within said housing structure having an input face, an output face, and a transflective face to further shape and direct the light emitted by said light source, said second prism further including facets on said faces of said second prism.

- 21. (Original) The position light of claim 1, wherein said prism includes facets on the input face of said prism.
- 22. (Original) The position light of claim 21, wherein said facets are one of flat and curved.
- 23. (Previously Presented) A position light for use on an aircraft, comprising:
 - a housing structure;
 - at least one light source arranged inside said housing structure;
- a prism having an input face, an output face, and a transflective face to receive, distribute, and direct light emitted by said light source, said light source being located externally to said prism; and

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a lens through which emitted light passes, wherein said lens is engaged

with the housing structure and light emitted by said light source is capable of

passing through said lens, said prism further including facets on all faces of

said prism.

24. (Previously Presented) A solid state position light for use on an

aircraft, comprising:

a housing structure;

a plurality of solid state light sources arranged inside said housing

structure;

an alignment guide for aligning said solid state light sources to direct

said light sources;

a prism having an input face, an output face, and a transflective face to

receive, distribute, and direct light emitted by said solid state light sources,

said light sources being located externally to said prism;

means for controlling the amount of electrical current applied to said

solid state light sources; and

a lens through which emitted light from said light sources passes,

wherein said lens is engaged with the housing structure.

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25. (Previously Presented) A position light for use on an aircraft,

comprising:

a housing structure;

a plurality of light sources arranged inside said housing structure,

wherein said light sources are electrically connected in series-parallel;

an alignment guide aligning said light sources to direct said light

sources;

means for carrying away heat generated by said light sources;

an optical filter for further conditioning the light emitted from said light

sources;

a diffuser for further conditioning and distributing the light emitted from

said light sources;

a first prism having an input face, an output face, and a transfiective

face to receive, distribute, and direct light emitted by said light sources, said

light sources being located externally to said first prism, said first prism

including facets on said input face;

a second prism having an input face, an output face, and a transflective

face to further shape and direct the light emitted by said light sources, said

second prism including facets on said input face;

means for controlling the amount of electrical current applied to said

light sources; and

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a lens through which emitted light passes, wherein said lens is engaged

with the housing structure.

26. (Previously Presented) A position light for use on an aircraft,

comprising:

a prism having an input face, an output face, and a transflective face to

receive, distribute, and direct light; and

at least one solid state light source wherein a first portion of the light

emitted from said light source undergoes total internal reflection at said

transflective face of said prism and a second portion of the light emitted from

said light source is transmitted through said transflective face, the combination

of said first and second portions of light producing a lighting pattern with a

sharp angular cutoff corresponding to the critical angle for to said total internal

reflection at said transflective face.

27. (Original) The position light of claim 26 wherein the light emitted

from said light source forms a continuum of incident angles of light on said

transflective face such that some light exceeds the critical angle of total

internal reflection for said prism, some light is at the critical angle of said is

prism, and some light does not exceed the critical angle of said prism.

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28. (Currently Amended) A process for providing lighting for use on an aircraft, comprising:

providing a housing structure;

placing at said housing structure at least one light source;

applying electrical current to said at least one light source;

receiving, distributing, and directing light emitted from said light source by means of a prism having an input face, an output face, and a transflective face, said light sources being located externally to said prism; and

passing the emitted light through a lens, wherein said lens is engaged with the housing structure and light emitted by said light source is capable of passing through said lens after passing through said output face.

29. (Original) The process of claim 28 wherein a first portion of the light emitted from said light source undergoes total internal reflection at said transflective face of said prism and a second portion of the light emitted from said light source is transmitted through said transflective face, the combination of said first and second portions of light producing a lighting pattern with a sharp angular cutoff corresponding to the critical angle for said total internal reflection at said transflective face.

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30. (Original) The process of claim 28, further comprising the steps of providing a second prism having an input face, an output face, and a transflective face and arranging said second prism at the transflective face of said prism to further shape and direct the light emitted by said light source.

- 31. (Original) The process of claim 28, further comprising the step of providing facets on the input face of said prism.
- 32. (Original) The process of claim 31, further comprising the step of including facets on all faces of said prism.
- 33. (Original) The process of claim 32, further comprising the step of shaping said facets to one of flat and curved shapes.
- 34. (Original) The process of claim 30, further comprising the step of providing facets on the input face of said second prism.
- 35. (Original) The process of claim 34, further comprising the step of including facets on all faces of said second prism.

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36. (Original) The process of claim 28, further comprising the step of

controlling said electrical current at one of from inside said housing structure

and remotely from said housing structure.

37. (Currently Amended) A process for providing position lighting for

use on an aircraft, comprising:

providing a housing structure;

placing at said housing structure a plurality of solid state light sources

that are aligned to direct said light sources;

applying and controlling electrical current to said solid state light

sources;

receiving, distributing, and directing light emitted from said solid state

light sources by means of a prism having an input face, an output face, and a

transflective face, said light sources being located externally to said prism; and

passing the emitted light through a lens, wherein said lens is engaged

with the housing structure.

38. (Currently Amended) A process for providing position lighting for

use on an aircraft, comprising:

providing a housing structure having an interior surface;

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placing at said housing structure a plurality of light sources that are aligned to direct said light sources, said light sources electrically connected in series-parallel;

aligning said light sources to direct said light sources; carrying away heat generated by said light sources;

optically filtering light from said light sources;

diffusing light from said light sources;

receiving, distributing, and directing light emitted from said light sources by means of a first prism having a faceted input face, an output face, and a transflective face, said-light sources being located externally to said first prism;

shaping and directing the light emitted by said light sources by means of a second prism disposed at the transflective face of said first prism and having a faceted input face, an output face, and a transflective face;

applying and controlling electrical current to said light sources; and passing the emitted light through a lens, wherein said lens is engaged with the housing structure.

39. (Currently Amended) A process for providing position lighting for use on an aircraft, comprising:

providing at least one solid state light source;

applying electrical current to said light sources; and

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receiving, distributing, and directing light emitted from said light source by means of a prism having an input face, an output face, and a transflective face, wherein a first portion of the light emitted from said light source undergoes total internal reflection at said transflective face of said prism and a second portion of the light emitted from said light source is transmitted through said transflective face, the combination of said first and second portions of light producing a lighting pattern with a sharp angular cutoff corresponding to the critical angle for said total internal reflection at said transflective face.

40. (Original) The process of claim 39 wherein the light emitted from said light source forms a continuum of incident angles of light on said transflective face such that some light exceeds the critical angle of total internal reflection for said prism, some light is at the critical angle of said prism, and some light does not exceed the critical angle of said prism.